

L. ABSTRACT OF DISCLOSURE:

This invention provides for a new method for locking Intramedullary Nails (IM Nails) with Threaded Guidewire which may be accompanied by specially designed tapered screws with segmented threads. This new design uses the screws to begin locking the IM Nail, followed by threaded guidewire that is placed in between screws of the IM Nail. Whenever a more proximal screw is placed with the threaded guidewire, it causes the guidewire to push/lock onto or around the distal screw eliminating the play and causing a more stable form of fixation.

The screws may be tapered and have partial, segmented or full threads. The tapered end would pass through the guidewire eliminated early locking. The middle threads would engage the guidewire and IM Nail. The tapering and threading would allow for maximum screw strength, a lag effect, centering of the IN Nail and fixation to the nail. The wider end of the screw would eliminate movement of one end of the screw, while the other end will rely on the guidewire to eliminate play.